CHAPTER 6: PRESS SECTION

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1. Theory of Operation

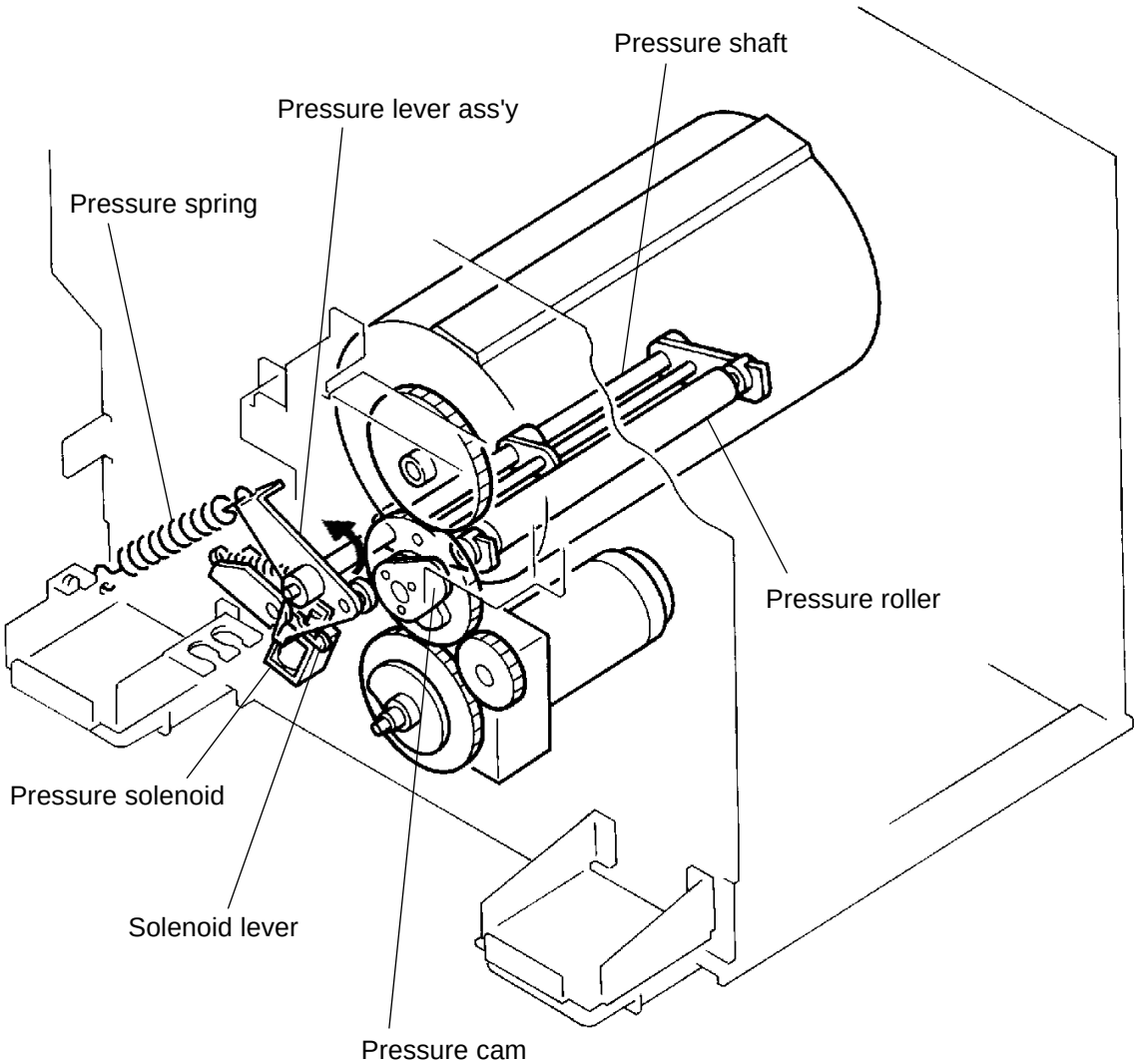
1. Press Mechanism

1. Press Solenoid

- The Press solenoid activates when the Drum rotates 40° from the first Position-A after the Start button is pressed for printing.
- At this Drum position, the Solenoid lever and Pressure lever ass'y are still engaged.

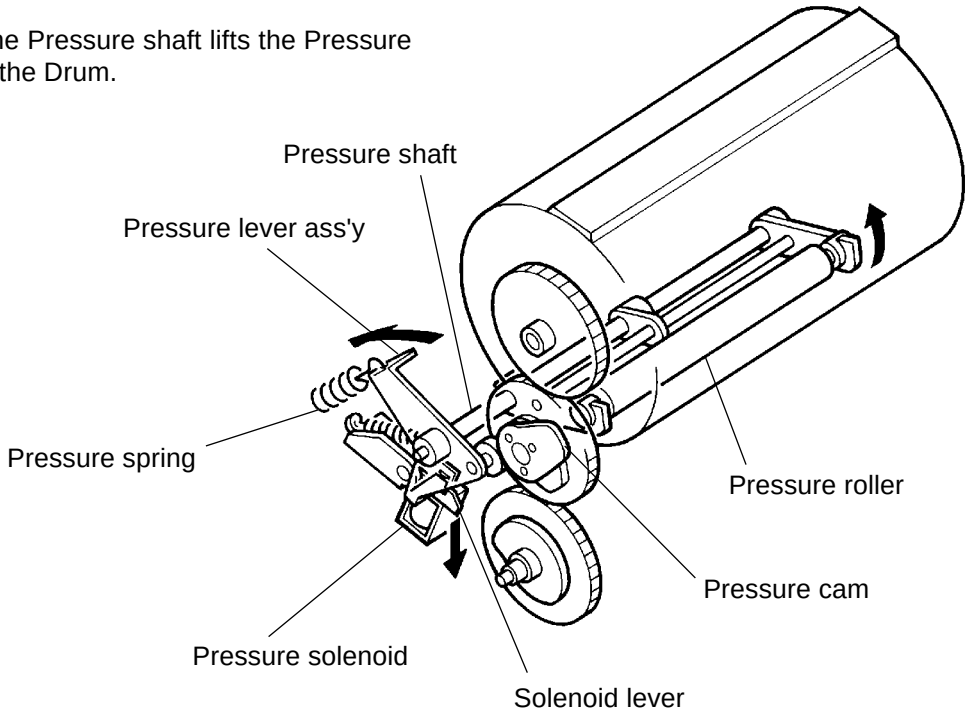
2. Pressure Roller

- The Solenoid lever disengages from the Pressure lever ass'y as the Drum rotates and the Clamp plate on the Drum comes near the Pressure roller.
- The Pressure lever ass'y is then pulled back by the Pressure spring and turns the Pressure shaft in the direction shown by the arrow mark.
- The Pressure lever ass'y rotating in the direction of the arrow mark lifts the Pressure roller up against the Drum.
- To prevent the Pressure roller from hitting against the Clamp plate of the Drum during printing, the Pressure cam pushes against the Pressure lever ass'y to rotate it in the direction opposite to the arrow mark and lowers the Pressure roller clear from the Drum.
- The Pressure solenoid is activated "ON" throughout the printing process.



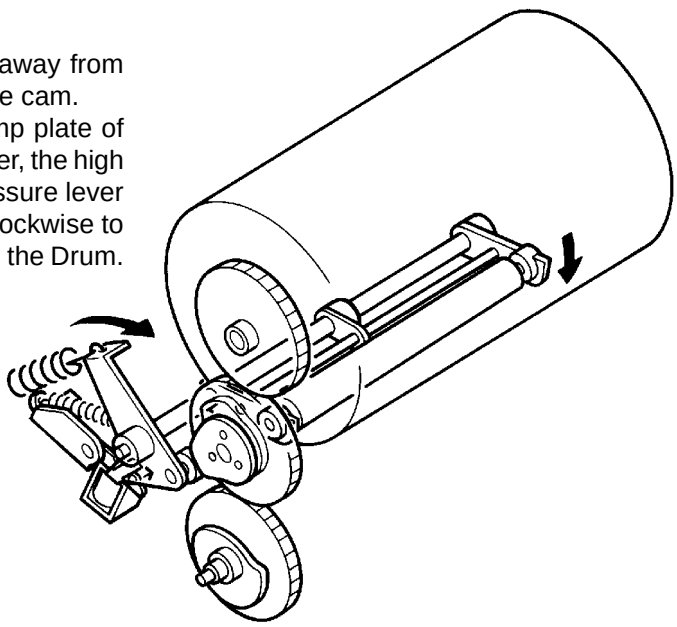
Lifting the Pressure Roller

The Pressure solenoid is activated throughout the printing.
The solenoid pulls the Solenoid lever down and disengages Pressure lever ass'y from the Solenoid lever.
The Pressure spring pulls back the Pressure lever ass'y and rotates the Pressure shaft which is acting as a pivot.
The rotation of the Pressure shaft lifts the Pressure roller up against the Drum.

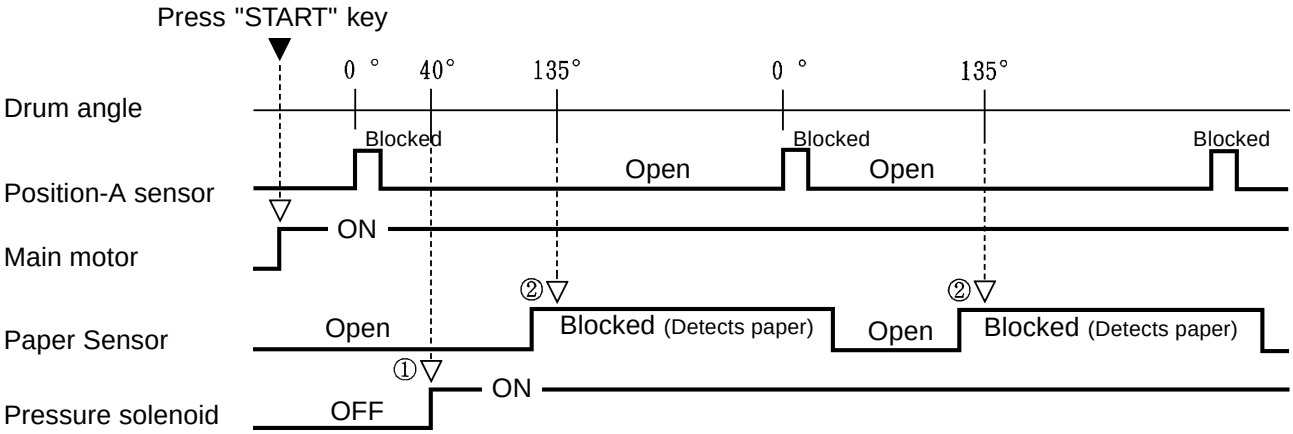


Lowering the Pressure Roller

The Pressure roller is lowered by force, away from the Drum, by the high part of the Pressure cam.
During the Drum rotation, when the Clamp plate of the Drum comes close to the Pressure roller, the high part of the Pressure cam pushes the Pressure lever ass'y down, rotating the Pressure shaft clockwise to bring the Pressure roller down, away from the Drum.



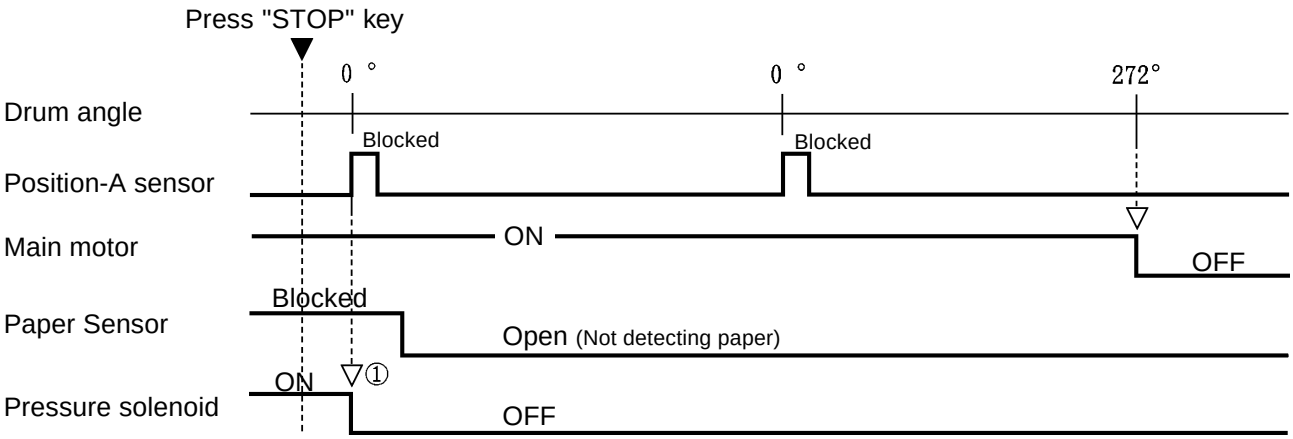
Pressure Solenoid "ON" Timing Chart



① The Pressure solenoid is turned ON when the Drum rotates to 40 degrees during printing operation.

② The Pressure solenoid is turned OFF if the light path of the Paper sensor is open (not detecting paper) when the Drum is at 135 degrees.

Pressure Solenoid "OFF" Timing Chart



① The Pressure solenoid is turned OFF at the first Drum position-A after the "Stop" key is pressed.